



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	742R2	1204

REGISTERED ENGINEER - CIVIL

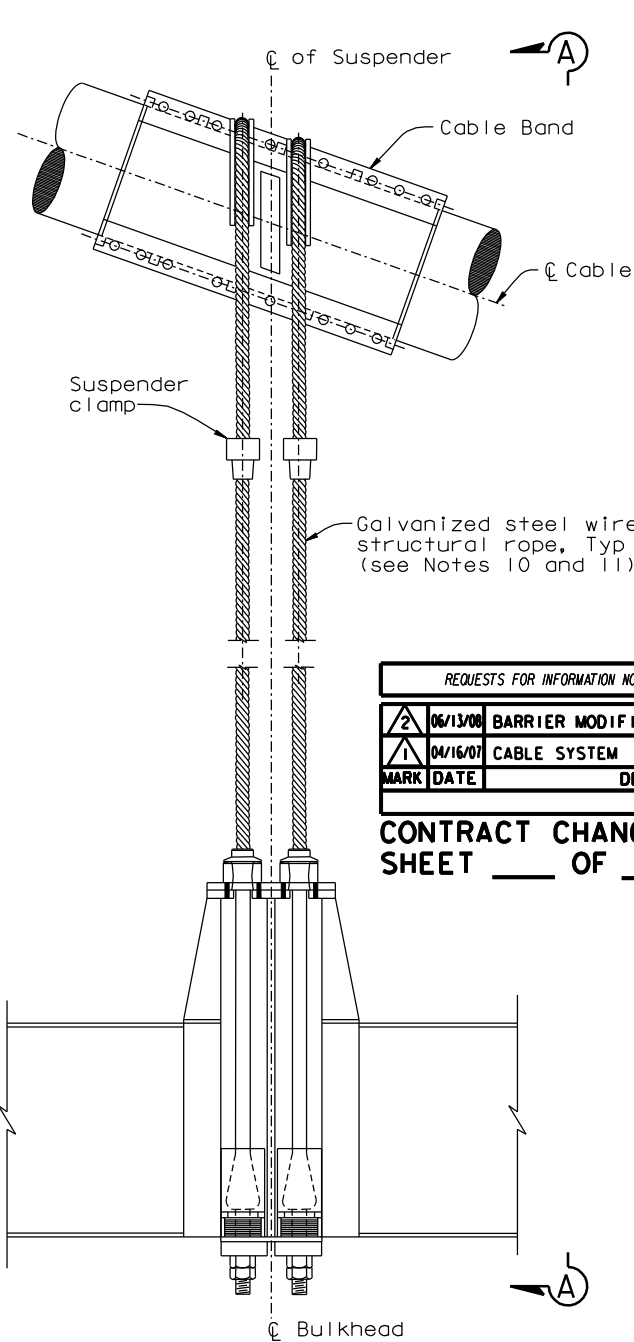
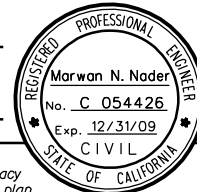
12-6-04

PLANS APPROVAL DATE

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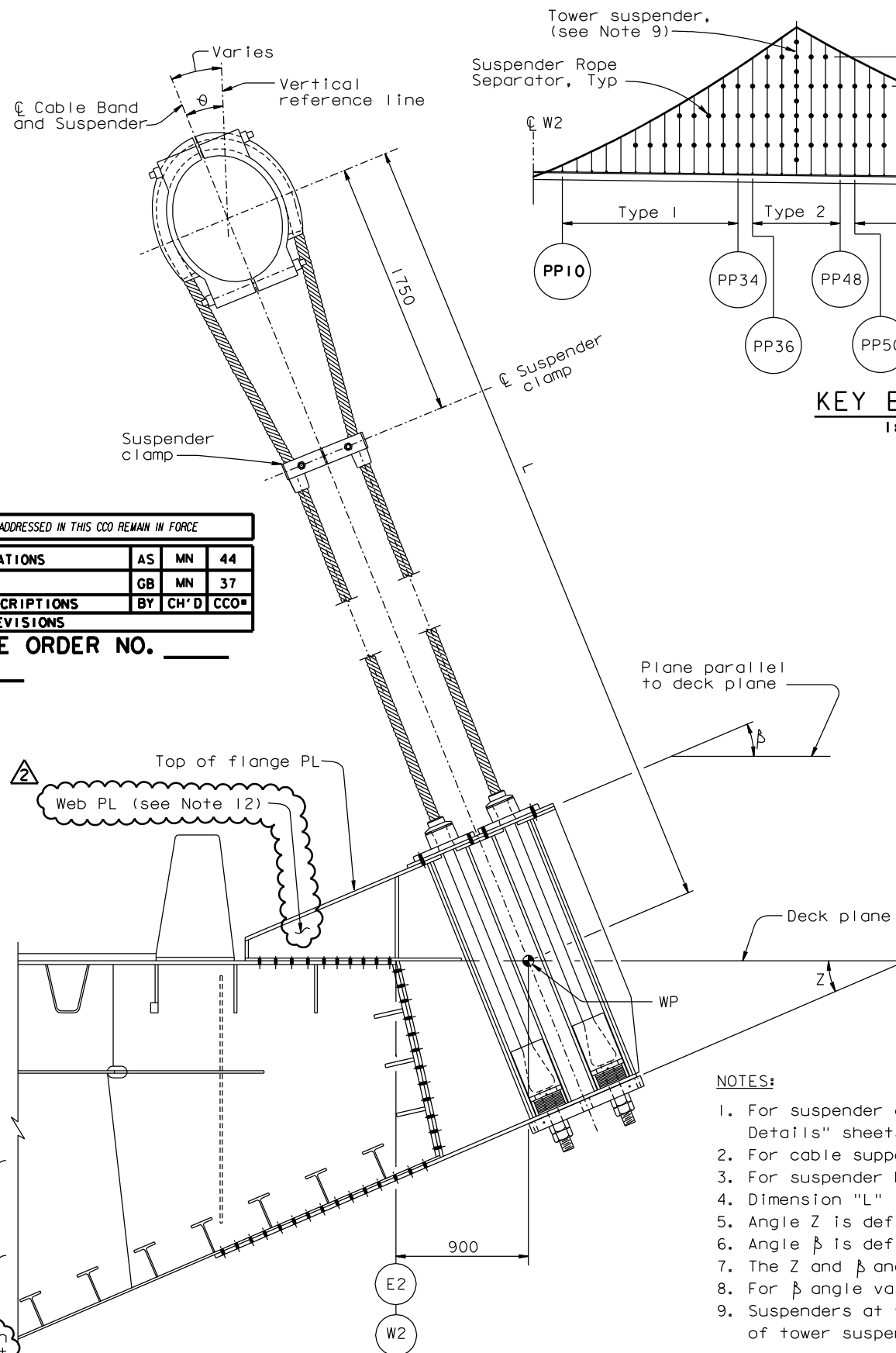
T.Y. LIN / MOFFATT & NICHOL  
825 BATTERY STREET  
SAN FRANCISCO, CA 94111

Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

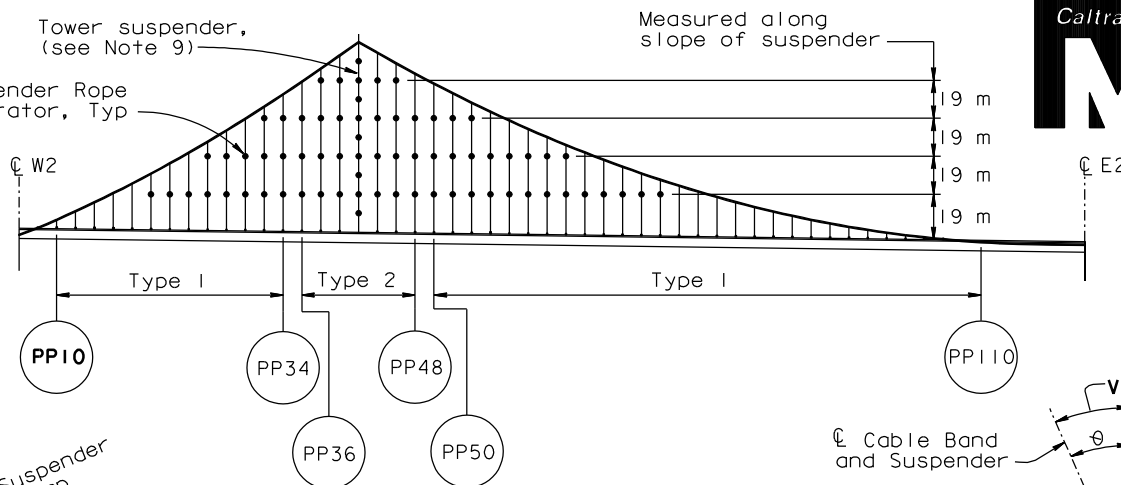


SUSPENDER TYPES 1 & 2  
NTS

10. Type 1 Suspender ropes shall have a metallic area of at least 2742 mm<sup>2</sup> and a nominal diameter no greater than 78 mm. The vertical component of dead load on the four rope parts of one suspender shall be limited to 3200 kN.
11. Type 2 Suspender ropes shall have a metallic area of at least 4460 mm<sup>2</sup> and a nominal diameter no greater than 102 mm. The vertical component of dead load on the four rope parts of one suspender shall be limited to 4800 kN.
12. At locations where cable railing interferes with web PL, drilling a 10 mm Dia hole in the bracket web PL is acceptable, subject to review and approval of the Engineer.



SECTION A-A (TYPICAL)  
NTS



KEY ELEVATION  
1:2000

NOTES:

- For suspender details, see "Suspender Assembly Details" sheets. For cable band details, see "Cable Band Details" sheets.
- For cable support at PP 112, 114 & 116, see "Cable Bracket Details" sheets.
- For suspender bracket details, see "Suspender Bracket Details" sheets.
- Dimension "L" is defined as the distance between the  $\phi$  of the cable and the WP of the suspender bracket.
- Angle Z is defined as the angle between the deck plane and the top flange of the suspender bracket.
- Angle  $\beta$  is defined as the angle between the deck plane and the top of the bevel shim.
- The Z and  $\beta$  angles shall be taken as equal.
- For  $\beta$  angle values, see "Suspender Bracket Details No.3" sheet.
- Suspenders at the tower are architectural and are substantially different from all others. For details of tower suspenders, see "Suspenders At Tower Details" sheets.

ALL DIMENSIONS ARE IN  
MILLIMETERS UNLESS OTHERWISE SHOWN

SAN FRANCISCO OAKLAND BAY BRIDGE  
EAST SPAN SEISMIC SAFETY PROJECT  
SELF-ANCHORED SUSPENSION BRIDGE  
(SUPERSTRUCTURE & TOWER)  
SUSPENDER LAYOUT NO. 1

R. Valizadeh/V. Toan/Y.L./W.L./F.C.  
DESIGN OVERSIGHT  
Sign Off Date 06/13/08

DESIGN BY M. Nader  
DETAILS BY C. Mibelli  
QUANTITIES BY C. Mibelli

CHECKED S. Rodriguez  
CHECKED S. Rodriguez  
CHECKED G. Baker

PREPARED FOR THE  
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

R. Manzanarez  
PROJECT ENGINEER

BRIDGE NO.  
34-0006L/R  
KILOMETER POST  
13.2/13.9

CU 04  
EA 0120F1

DISREGARD PRINTS BEARING  
EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

01/18/99 05/13/99 08/02/99 05/13/01 04/08/02 01/01/02 12/19/02

SHEET  
325R2

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